



DEPARTMENT OF THE NAVY
OFFICE OF THE CHIEF OF NAVAL OPERATIONS
2000 NAVY PENTAGON
WASHINGTON, DC 20350-2000

OPNAVINST 5200.34
N60M
28 May 02

OPNAV INSTRUCTION 5200.34

From: Chief of Naval Operations

Subj: NAVY MODELING AND SIMULATION (M&S) MANAGEMENT

Ref: (a) DoD Directive 5000.59 of 4 Jan 94; Subj: DoD Modeling and Simulation (M&S) Management (NOTAL)
(b) SECNAV Instruction 5200.38A of 28 Feb 02; Subj: Department of the Navy Modeling and Simulation Management
(c) DoD Instruction 5000.61 of 29 Apr 96; Subj: DoD Modeling and Simulation (M&S) Verification, Validation, and Accreditation (VV&A) (NOTAL)
(d) SECNAV Instruction 5200.40 of 19 Apr 99; Subj: Verification, Validation, and Accreditation (VV&A) of Models and Simulations

1. Purpose. To comply with the requirements and implement the guidance addressed in references (a) and (b). This instruction:

a. Establishes the Navy Modeling and Simulation (M&S) Management Office (NAVMSMO), Chief of Naval Operations (CNO (N60M)),

b. Defines the organizational structure for implementing reference (b) and the Navy M&S management,

c. Establishes a Navy M&S Advisory Council,

d. Identifies Functional Area Managers, and

e. Assigns responsibilities and prescribes policy and guidance for execution of the Navy M&S program.

2. Background. Reference (a) establishes policy, assigns responsibilities, and prescribes procedures for the management of M&S. Reference (b) complies with Department of Defense (DoD) directives and provides guidance for Department of Navy (DON) management of M&S. This instruction amplifies existing policy and guidance and specifically addresses the Navy M&S management.

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3. Modeling and Simulation Vision. The Navy adopts and supports the DON M&S vision that modeling and simulation "will be a pervasive tool for operational units and will support analysis, training, and acquisition throughout the Department of Navy". The Navy M&S vision calls for the use of world-class models, simulations, and simulators as tools to meet the future challenges of supporting force readiness, structure, and transformation.

4. Policy

a. General

(1) NAVMSMO is responsible for coordination and integration of modeling and simulation efforts across all warfare and support areas. Navy uses and relies on M&S in four pillars: assessment, training, acquisition, and support to operations. These areas cross organizational boundaries and represent the many interests and responsibilities of the Navy. The Navy M&S Program establishes guidance for the use of M&S and amplifies other existing regulations, which govern its design, development, application, and disposition.

(2) This instruction applies to all organizations within the Navy involved with M&S activities with the exception of the Naval Sea Systems Command Nuclear Propulsion Directorate (SEA-08) as exempted in reference (b). However, the principles of this instruction and references (a) and (b) are considered to be valid for SEA-08.

(3) This instruction applies to all models and simulations used by or developed by Navy activities on or after its effective date. Models include any physical, mathematical, or otherwise logical representation of a system, entity, phenomenon or process. Simulations include a method of implementing a model over time. Both are defined in reference (a).

(4) Requests for exceptions by Navy organizations to DON or Navy M&S Program management policies will be submitted through the appropriate chain of command to CNO NAVMSMO (CNO (N60M)). Deputy Chief of Naval Operations (DCNO) Warfare Requirements and Programs (N6/N7), as the Navy M&S Executive Agent, will approve or deny exceptions. Disapproved exceptions may be appealed, via the M&S Advisory Council which may make a recommendation, to the CNO who shall decide final dispensation.

b. Interoperability and Standardization. The Navy M&S Program will comply with standardization initiatives associated

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with M&S and data to ensure interoperability, accessibility, and reuse of M&S. The Navy will comply with DoD M&S standardization.

c. Verification, Validation, and Accreditation (VV&A). The implementation of the VV&A process will establish credibility and confidence in M&S for a specific use and should minimize risk to programs that rely on M&S support. Policy, procedures, and responsibilities for the VV&A of DON M&S are described in references (c) and (d). The DON M&S VV&A Implementation Handbook provides amplifying information, guidance, and assistance to those responsible for conducting M&S VV&A.

5. Navy M&S Organizational Structure. Oversight of the Navy M&S Program is provided by the various components of the management structure described herein. This organizational structure consists of:

- a. the Executive Agent for M&S, DCNO (N6/N7);
- b. the flag-level Navy M&S Advisory Council;
- c. Functional Area Managers;
- d. NAVMSMO, the centralized office that serves as the Navy focal point for M&S; and
- e. the Navy M&S Working Group.

6. Responsibilities

a. DCNO Warfare Requirements and Programs (N6/N7). DCNO Warfare Requirements and Programs (N6/N7) is designated the Navy Executive Agent for M&S and shall:

(1) Ensure that the DoD component responsibilities assigned by references (a) and (b) are carried out.

(2) Establish and provide guidance as necessary for the management of the Navy M&S Program to include plans, policy, and procedures for Navy M&S. This also includes setting Navy-wide standards for M&S components.

(3) Establish NAVMSMO as the Navy single point of contact on all M&S matters.

(4) Promote the effective use of M&S in the Navy by ensuring standards are established and enforced. Maintain

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communications across DON organizations to ensure M&S users and developers are informed, trained, and coordinated.

(5) Review and coordinate DoD M&S plans, programs, policies, procedures, and publications with the Marine Corps Executive Agents and forward DON positions following the guidelines in reference (b).

(6) Approve the appointment of Navy representatives to M&S activities sponsored by DoD, the Defense Modeling and Simulation Office (DMSO), or other organizations.

(7) Review, approve, or disapprove requests for exceptions to the Navy M&S Program management policies.

(8) Convene the M&S Advisory Council to review Navy exceptions to M&S policies that are being referred to CNO for final determination and disposition, and to review other issues as deemed necessary.

b. The Navy M&S Advisory Council. The Navy M&S Advisory Council advises the CNO on all Navy M&S policies and exceptions. The Navy Advisory Council shall:

(1) Be chaired by the Navy Executive Agent for M&S. Director, NAVMSMO will serve as the secretariat to the M&S Advisory Council.

(2) Be composed of representatives of the following organizations:

<u>Organization</u>	<u>Functional Area</u>
Chief of Naval Research	Science and Technology Requirements
Commander, Naval Warfare Development Command (COMNAVWARDEVCOM)	Doctrine and Experimentation
CNO (N091)	Test and Evaluation, Acquisition
CNO (N096)	Environment
CNO (N1)	Manpower & Personnel
CNO (N2)	Intelligence
CNO (N3/N5)	Joint Requirements, Force Protection
CNO (N4)	Logistics
CNO (N79)	Training, Training Systems and Education
CNO (N8)	Assessment and Analysis

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Others as designated by the Chair

(3) Meet annually or at the call of the Chair, CNO (N6/N7).

c. Functional Area Managers. The Functional Area Managers serve as a single point of contact for their respective functional areas. They deal with issues across a spectrum of organizations. For example, the Deputy Chief of Naval Operations Resources, Requirements and Assessments (N8) is designated as the Functional Area Manager for assessment and analysis, yet these tasks are carried out throughout many organizations. Functional Area Managers shall:

(1) Participate as members of the Navy M&S Advisory Council.

(2) Resolve policy interpretations and provide exception recommendations for programs within their functional areas to the Navy Executive Agent for M&S.

(3) Provide vision for employment of M&S to commands, facilities, and organizations working within their specified functional areas.

(4) Promote and support participation in joint and cooperative research, development, acquisition, and operation of M&S systems, technologies, and capabilities within their respective functional areas.

(5) Participate in the development and maintenance of the Navy M&S Master Plan and other Navy M&S planning documents.

(6) Provide to NAVMSMO a coordinated Navy response on M&S issues external to the Navy as required.

(7) Ensure that M&S systems developed within their functional area comply with DoD and Navy standards and maximize interoperability and reuse of M&S as appropriate.

d. Navy Modeling and Simulation Management Office (CNO (N60M)). The Navy Modeling and Simulation Management Office shall:

(1) Provide advice and assistance to the Navy Executive Agent for M&S.

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(2) Serve as the Navy single point of contact for management and coordination on all M&S matters, including M&S plans, programs, policies, and procedures across functional areas throughout the Navy and as prescribed in reference (b).

(3) Identify, investigate, and document existing and emerging M&S requirements and technologies, and assist in prioritizing them.

(4) Establish and maintain policy, planning documents, instructions, and standards as necessary to manage the Navy M&S efforts.

(5) Provide common services and tools to facilitate sharing of information. Establish and maintain centralized information distribution system to promote active participation in effective M&S development, use, and reuse. This system shall include:

(a) M&S catalog which will function as the DON M&S resource repository and naval point of contact for input into defense catalog systems.

(b) Navy M&S Standards Project,

(c) Navy M&S VV&A,

(d) Simulation Support Plan, and

(e) Technical assistance as required and appropriate.

(6) Promote an educational and outreach program on M&S capabilities and acts as advocate for Navy M&S programs in coordination with CNO (N79).

(7) Establish or support other M&S initiatives such as Navy M&S projects relative to experimentation, data standardization and VV&A.

(8) Establish and maintain close coordination with the DMSO and the M&S management offices of other Services. Promote joint interoperability and efficient reuse through a common technical framework and Navy participation in joint and cooperative research, development, acquisition, and operation of M&S systems, technologies, and capabilities.

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(9) Be responsible for guiding the efforts within the Navy to achieve its vision and objectives identified in reference (b).

(10) Establish and chair a Navy M&S Working Group to assist in the accomplishment of assigned responsibilities.

e. Navy M&S Working Group. The Navy M&S Working Group (NAVMSWG) shall:

(1) Be chaired by the Director, NAVMSMO (CNO (N60M)).

(2) Be composed of action officers representing each of the Functional Area Managers and other invited activities.

(3) Meet at the call of the Chair, CNO (N60M).

(4) Review, forward and recommend courses of action on M&S issues to the M&S Advisory council.

(5) Review and resolve M&S issues referred by the M&S Council for resolution at the working group level.

(6) Include other functions such as:

(a) Identify functional requirements to be addressed by M&S planning documents.

(b) Assist NAVMSMO with the formulation of the Navy M&S vision; development of Navy M&S policy; and the application of technical support as related to their areas of responsibility.

(c) Create consolidated position of the member organizations on M&S issues being addressed by the working group.

(d) Assist with M&S Program Objective Memorandum (POM) issues.

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Deputy Chief of Naval Operations
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